

Flight Service PIREP Support Submission, Solicitation, & Dissemination

June 21, 2016



Context – Flight Service Modernization

- AFSS, Legacy Flight Service
- Modernization Drivers
 - Improve safety: many new capabilities
 - Reduce cost: exploit available technology to reduce calls, transition to service enabler
 - Engage commercial marketplace: web services infrastructure
- A76 contract structure key enabler
- Modernization strategy is working
 - >1.2M adverse condition alert detections in 2016
 - 20+ operational web service clients, ~15 in integration, now handling more transactions online than through our specialist workforce

PIREP Support Prominent in Modernization

Enabling Electronic PIREP Submission

Flight Services Data Link (FSDL)

- Bi-directional electronic communications with cockpit
- Provides infrastructure for a wide range of applications
- Pathway to handle routine flight service communications with automation



Spidertracks



Honeywell

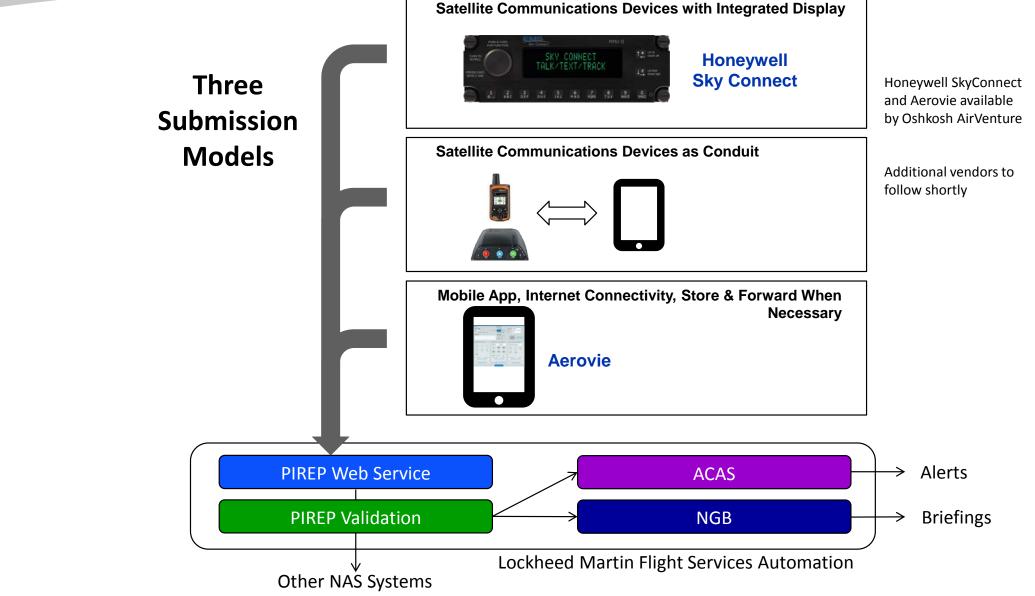


DeLorme



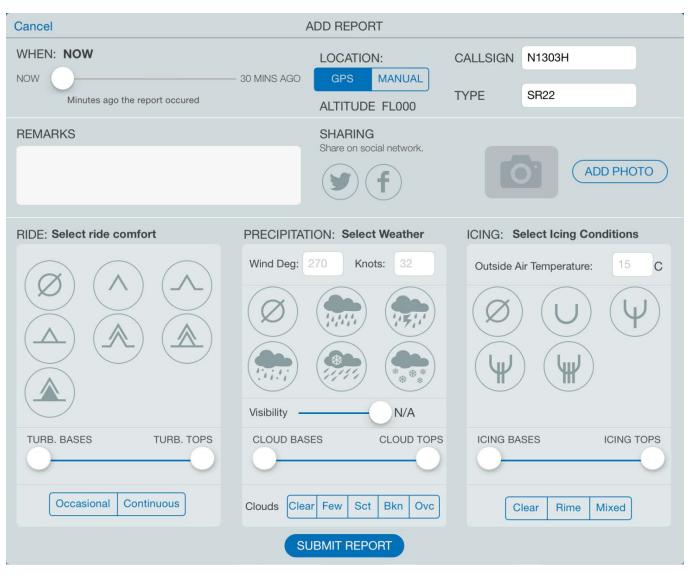
Garmin

Inflight Electronic PIREP Submission



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Common UI Themes:

- Preconfigured aircraft type and tail number / call sign
- Auto-fill (with optional assist) for time, location
- Pilot is primarily concerned with characterizing conditions

Minimize heads-down time!



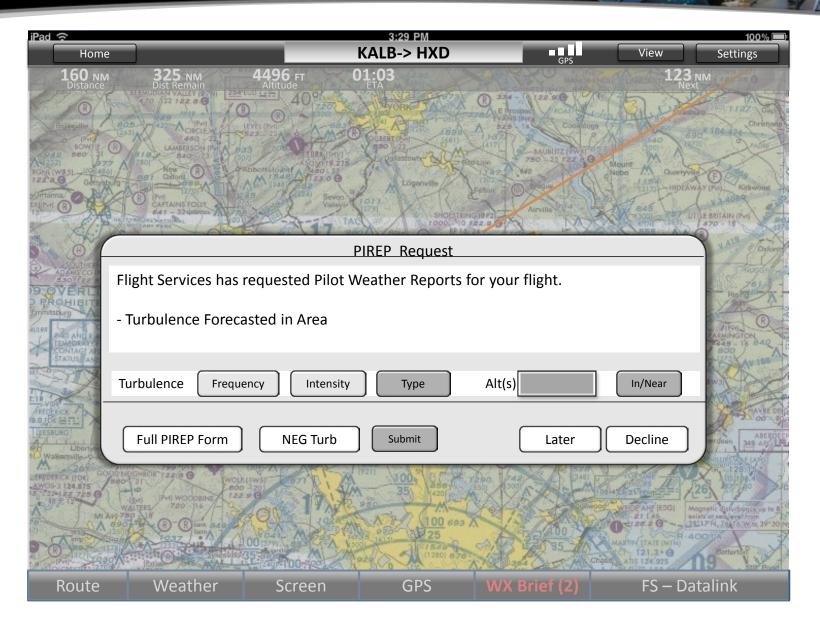
7/23 Test Flight - Cirrus
Perspective / G1000 MFD via
XM Sat feed.

Solicitation

- Surveillance-Enhanced Search & Rescue uses FSDL to receive regular position updates from VFR flights; traditional surveillance provides location for most IFR flights
- Given a mechanism to determine more PIREPs are desirable in a particular area (could be NWS or Flight Service automation), PIREP solicitations could be targeted to FSDL-equipped aircraft (IFR or VFR)

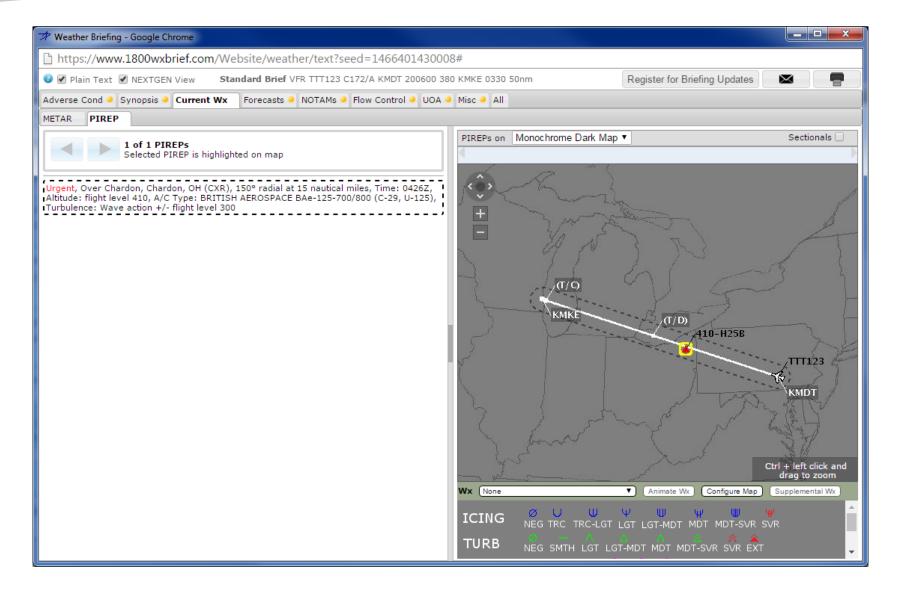
 Communications infrastructure to support exists – but service not implemented at this time

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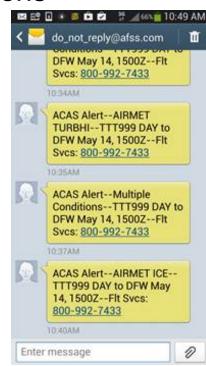
Notional

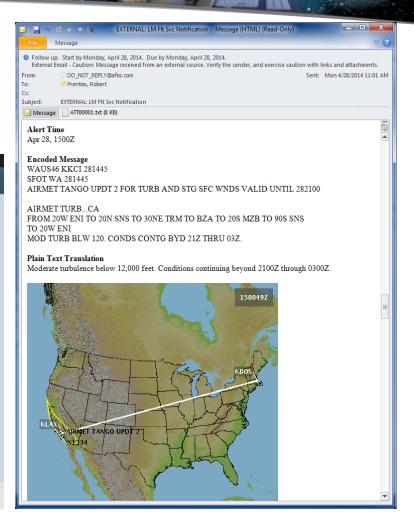
PIREP Dissemination - Briefings



Adverse Condition Alerting Service (ACAS)

- Free service, operational since October 2012
- Monitors flight plans after briefing/file, sends alerts to pilots for new or modified adverse conditions
 - TFRs, Closed/Unsafe Airports/Runways, SIGMETs Convective SIGMETs, AIRMETs, CWAs, Urgent PIREPs, Severe Wx Warnings & Watches
- Preflight delivery via Email, text msg,
- Inflight delivery via SATCOM devices: spidertracks, Honeywell Sky Connect, DeLorme, Garmin
- Also via web services (e.g., Foreflight Flight Notifications)





43% of surveyed pilots said there were adverse conditions they would not have otherwise known about

Summary

- Electronic submission available
 - Working, but utilization still modest (~500 this year)
 - Many pilots unaware capability is available
 - Cost of communications / additional equipage has been a significant factor for "low-end" GA
- Solicitation could be added
- Proactive, targeted dissemination available

